

CARBOHYDRATE RESEARCH, VOL. 185 (1989)

AUTHOR INDEX

- ABE, J.-I., 191
 AJISAKA, K., 139
 ALBERSHEIM, P., 261, 279
 ANDERSSON, M., 211

 BACKINOWSKY, L. V., c1
 BAN, C., 307
 BEAUCHAMP, R. D., 39
 BELL, C. F., 39
 BOYKO, W. J., 61

 CARLIN, N., 211
 CASEY, A., 147
 CHOAY, J., 69
 COLQUHOUN, I. J., 233
 CONNER, A. H., 249

 DARVILL, A. G., 261, 279
 DEBRAY, H., 15

 EL KHADEM, H. S., 51
 ENNIFAR, S., 51

 FEATHER, M. S., 315
 FORSYTHE, K. L., 315
 FREJD, T., 171
 FUJIKURA, K., 307
 FUJIMOTO, H., 139

 GETTINS, P., 69
 GHOSAL, P. K., 105
 GIANFERRARA, T., 119
 GIBSON, T. S., 147
 GIULIANO, R. M., 61
 GOTO, M., 307

 HAYASAKA, E., 307
 HAYASHIDA, M., 91
 HELM, R. F., 249
 HINDSGAUL, O., 163
 HIZUKURI, S., 191
 HORGAN, L., 147

 ISBELL, H. S., 51

 JANSSON, K., 171

 KARÁCSONYI, Š., 199
 KASAI, R., 27
 KASPEROWICZ, S., 61
 KIHILBERG, J., 171

 KITZING, S., 171
 KOCHETKOV, N. K., c1
 KOIZUMI, K., 191
 KÖNIG, W. A., 113
 KOVÁČIK, V., 199
 KUBOTA, Y., 191
 KUZUHARA, H., 91

 LEONTEIN, K., 211
 LINDQUIST, U., 211

 MAGNUSSON, G., 171
 MAJUMDAR, S. G., 105
 MANDAI, T., 191
 MARTEL, C., 1
 MARTIN, O. R., 77
 MATSUURA, H., 27
 MCCLEARY, B. V., 147
 MISCHNICK-LÜBBECKE, P., 113
 MIZUTANI, K., 27
 MONTREUIL, J., 1, 15

 NAKAMURA, M., 27
 NEPOGOD'EV, S. A., c1

 O'FLAHERTY, J., 147
 OKADA, Y., 191

 PAOLETTI, S., 119, 131
 PAROLIS, H., 225
 PAROLIS, L. A. S., 225

 RAFKA, R. J., 77
 RAY, B., 105
 RHEINGOLD, A. L., 61
 RYDEN, P., 233

 SAITO, K.-I., 307
 SAKAIRI, N., 91
 SAKAI, S., 191
 SELVENDRAN, R. R., 233
 SHEEHAN, H., 147
 SHIMAMURA, A., 239
 SHORT, E. L., 39
 SKJÅK-BRÆK, G., 119, 131
 SLETTENGREN, K., 211
 SRIVASTAVA, V., 163
 STRECKER, G., 1
 SUGAI, K., 307
 SUGIYAMA, N., 307
 SZAREK, W. A., 77

TANAKA, O., 27
THAKUR, S., 105
THOMAS, J. R., 261, 279
TOMITA, K., 307

VENTER, R. D., 225

WIERUSZESKI, J.-M., 1

YAMADA, N., 307
YOUNG, R. A., 249

ZANETTI, F., 131

CARBOHYDRATE RESEARCH, VOL. 185 (1989)

SUBJECT INDEX

- Acacia auriculaeformis* A. Cunn., structural studies of an acidic polysaccharide from the seeds of, 105
- Acetylation of mannuronic acid residues in calcium alginate gels, selective, 119
- Agglutinin of *Aleuria aurantia*, isolation and specificity of, 15
- Alginate gels, selective acetylation of mannuronic acid residues in calcium, 119
- Alginates, effects of acetylation on some solution and gelling properties of, 131
- Aleuria aurantia* agglutinin, isolation and specificity of, 15
- 1,6-Anhydro- β -maltotriose: preparation from pullulan, and regioselective partial-protection reactions, 91
- α - and β -L-Arabinofuranosides, effect of glycosylation on n.m.r. spectra of, 27
- Aspergillus niger*, purification, properties, and industrial significance of transglucosidase from, 147
- Benzylated starches, determination of the substitution pattern of, 113
- ^{11}B -n.m.r. spectroscopy and MNDO semi-empirical LCAO-MO calculations, a study of borate complexation with pentitols by, 39
- Borate complexation with pentitols, a study of, by ^{11}B -n.m.r. spectroscopy and MNDO semi-empirical LCAO-MO calculations, 39
- Capsular polysaccharide of *E. coli* K39, use of depolymerisation by a bacteriophage-associated glycanase in the structural investigation of the, 225
- Cellulose, the reversion reactions of D-glucose during the hydrolysis of, 249
- Conformations of derivatives of methyl 4-O- α -D-galactopyranosyl- β -D-galactopyranoside, preparation and calculated, 171
- 1,2-O-(1-Cyanoethylidene)- α -D-galactofuranose, formation of cyclo-oligosaccharides by polycondensation of the 3- and 6-O-tritylated derivatives of, c1
- Cyclomaltohexaoses, hydrolysis and synthesis of branched, with *Pseudomonas* isoamylase, 191
- Cyclo-oligosaccharides, formation of, by polycondensation of the 3- and 6-O-tritylated derivatives of 1,2-O-(1-cyanoethylidene)- α -D-galactofuranose, c1
- Detection of isokestose and neokestose in plant extracts by ^{13}C -n.m.r. spectroscopy, 315
- Determination of the substitution pattern of benzylated starches, 113
- E. coli* serotype-39 capsular polysaccharide: primary structure and depolymerisation by a bacteriophage-associated glycanase, 225
- Effect of acetylation on some solution and gelling properties of alginates, 131
- Escherichia coli* O-86, structural studies of the O-antigenic polysaccharide of, which possesses blood-group B activity, 211
- Evalopyranoside: reassignment of anomeric configuration for the methanolysis product of methyl 6-deoxy-3-C-methyl- α -L-mannofuranoside, X-ray structural and n.m.r.-spectral studies of methyl α -L-, 61
- Evidence of stable hydrogen-bonded ions during isomerization of hexoses in alkali, 51
- Examination, by ^1H -n.m.r. spectroscopy, of the binding of a synthetic, high-affinity heparin pentasaccharide to human antithrombin III, 69
- D-Fructose derivatives, 4-seleno-, synthesis of, 77
- β -D-GalpNAc-(1 \rightarrow 4)- β -D-GlcpNAc-(1 \rightarrow 2)- α -D-Manp, synthesis of 3"-sulfate ester of, 163
- α -D-Glucans, formed by the D-glucosyltransferases of *Streptococcus sobinus*, use of ^{13}C -n.m.r. spectroscopy for the quantitative estimation of 3-O- and 3,6-di-O-substituted D-glucopyranosyl residues in, 239
- Glycosylation, n.m.r. spectra, effect of, 27
- Heparin pentasaccharide, synthetic high-affinity, examination of the binding of a, to human antithrombin III, by ^1H -n.m.r. spectroscopy, 69
- Hexoses, isomerization of, in alkali, evidence of stable hydrogen-bonded ions during, 51
- Hexulofuranosides, unsaturated, 4-seleno-D-fructose derivatives as precursors of, 77
- Hydrolysis and synthesis of branched cyclomaltohexaoses with *Pseudomonas* isoamylase, 191

- Isoamylase, hydrolysis and synthesis of branched cyclomaltohexaoses with *Pseudomonas*, 191
- Isokestose detection of, in plant extracts, by ^{13}C -n.m.r. spectroscopy, 315
- Isolation and structural characterization of the pectic polysaccharide rhamnogalacturonan II from walls of suspension-cultured rice cells, 261
- Isoraffinose, enzymic synthesis of, 139
- Lectin of *Aleuria aurantia*, isolation and specificity of, 15
- Lutropin, bovine, identification of sulfate ester location on, 163
- β -Maltotriose, 1,6-anhydro-, preparation of, from pullulan, 91
- Mannuronic acid residues in calcium alginate gels, selective acetylation of, 119
- Methyl 4-*O*- α -D-galactopyranosyl- β -D-galactopyranoside, preparation and calculated conformations of derivatives of, 171
- Neokestose, detection of, in plant extracts, by ^{13}C -n.m.r. spectroscopy, 315
- Neuraminate, *N*-acetyl-, sodium salt, thermal degradation of, 307
- N.m.r.-spectral studies of methyl α -L-avalopyranoside: reassignment of anomeric configuration for the methanolysis product of methyl 6-deoxy-3-*C*-methyl- α -L-mannofuranoside, X-ray structural and, 61
- N.m.r. spectra of α - and β -L-arabinofuranosides, effect of glycosylation on, 27
- Oligosaccharide alditols of hen ovomucin, ^1H - and ^{13}C -n.m.r. assignments for two sulphated, 1
- Onion, investigation by ^{13}C -n.m.r. spectroscopy of structural features of the pectic polysaccharides of, 233
- Ovomucin, hen, ^1H - and ^{13}C -n.m.r. assignments for two sulphated oligosaccharide alditols of, 1
- Pectic polysaccharides of onion, investigation by ^{13}C -n.m.r. spectroscopy of structural features of the, 233
- Pentitols, a study of borate complexation with, using ^{11}B -n.m.r. spectroscopy and MNDO semi-empirical LCAO-MO calculations, 39
- Polycondensation of the 3- and 6-*O*-tritylated derivatives of 1,2-*O*-(1-cyanoethylidene)- α -D-galactofuranose, formation of cyclo-oligosaccharides by, C1
- Polysaccharide from the seeds of *Acacia auriculaeformis* A. Cunn., structural studies of an acidic, 105
- Polysaccharide of *Escherichia coli* O-86 which possesses blood-group B activity, structural studies of the O-antigenic, 211
- Polysaccharide, pectic (rhamnogalacturonan I) that is a component of monocot cell-walls, 279
- Polysaccharide, primary structure of *E. coli* serotype-39 capsular, and depolymerisation by a bacteriophage-associated glycanase, 225
- Populus alba* L., isolation and characterisation of xyloglucans from, 199
- Preparation and calculated conformations of derivatives of methyl 4-*O*- α -D-galactopyranosyl- β -D-galactopyranoside, 171
- Pullulan, preparation of 1,6-anhydro- β -maltotriose from, 91
- Purification, properties, and industrial significance of transglucosidase from *Aspergillus niger*, 147
- Raffinose, enzymic synthesis of, 139
- Reversion reactions, of D-glucose, during the hydrolysis of cellulose with dilute sulfuric acid, 249
- Rhamnogalacturonan I, a pectic polysaccharide that is a component of monocot cell-wall, 279
- Rhamnogalacturonan II, a pectic polysaccharide from the walls of suspension-cultured rice cells, isolation and structural characterization of, 261
- Rice cells, walls of suspension-cultured, isolation and structural characterization of the pectic polysaccharide rhamnogalacturonan II from, 261
- 4-Seleno-D-fructose derivatives, synthesis of, 77
- Solution and gelling properties of alginates, effect of acetylation on some, 131
- Starches, determination of the substitution pattern of benzylated, 113
- Structural features of the pectic polysaccharides of onion, investigation by ^{13}C -n.m.r. spectroscopy of, 233
- Structural studies of an acidic polysaccharide from the seeds of *Acacia auriculaeformis* A. Cunn., 105
- Structural studies of the O-antigenic polysaccharide of *Escherichia coli* O-86, which possesses blood-group B activity, 211
- Studies of the polysaccharides of *Populus alba* L.: isolation and characterisation of xyloglucans, 199
- 3''-Sulfate ester of β -D-GalpNAc-(1 \rightarrow 4)- β -D-GlcpNAc-(1 \rightarrow 2)- α -D-Manp, 163

Sulphated oligosaccharide alditols of hen ovomucin, two, ^1H - and ^{13}C -n.m.r. assignments for, 1

Thermal degradation of sodium *N*-acetylneuraminate, 307

Transglucosidase from *Aspergillus niger*, purification, properties, and industrial significance of, 147

Trisaccharides, enzymic synthesis of, 139

Use of ^{13}C -n.m.r. spectroscopy for the quantitative estimation of 3-*O*- and 3,6-di-*O*-substituted D-glucopyranosyl residues in α -D-glucans formed by the D-glucosyltransferases of *Streptococcus sobrinus*, 239

X-Ray structural and n.m.r.-spectral studies of methyl α -L-xylopyranoside: reassignment of anomeric configuration for the methanolysis product of methyl 6-deoxy-3-*C*-methyl- α -L-mannofuranoside, 61

Xyloglucans from *Populus alba* L., isolation and characterisation of, 199



